Storm Interface

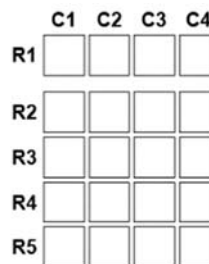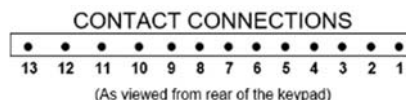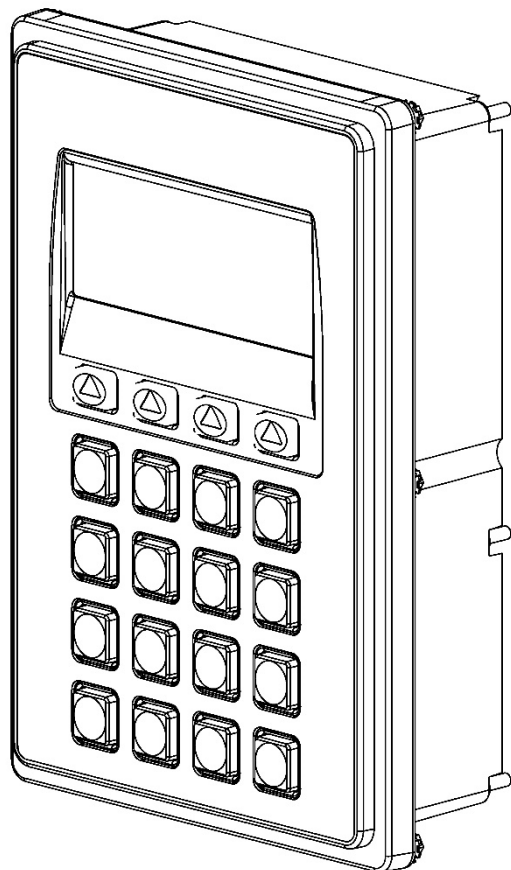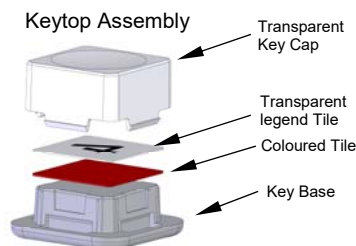# FT5000 Series Integrated Keypad / Display

Developed for use in a wide range of industrial and commercial applications, this integrated keypad and optional display is ideal for use in exposed, hostile or public environments. The display type can be specified to suit most applications. The optional LCD display module is securely located behind a coated, scratch resistant water sealed polycarbonate window. Provision is made for the locating of interface and encoding circuitry on the rear face of the keypad. The FT Integrated Keypad can also be specified with the unique Storm 'Graphics' keytop technology. These innovative keytops enable customization of keytop characters and colours. Please refer to Graphic Series keypads datasheet for more information and Storm's 'Graphics' keytop technology.

CONTACT CONNECTIONS

(As viewed from rear of the keypad)

13 12 11 10 9 8 7 6 5 4 3 2 1

	C1	C2	C3	C4
R1				
R2				
R3				
R4				
R5				

KEY LOCATION
(As viewed from front of keypad)

CONTACT MATRIX

CONNEC. PIN	ROW/ COLUMN
1	NOT USED
2	TAMPER
3	R2
4	R3
5	C1
6	C2
7	C3
8	C4
9	R5
10	R4
11	R1
12	TAMPER
13	NOT USED

FT4K version only : to customise the layout, place a colour tile and a legend tile onto the key base, and clip the keycap over the top.

Keytop Assembly

- Transparent Key Cap
- Transparent legend Tile
- Coloured Tile
- Key Base

Electrical

Contact Bounce	5 ms (max)
Contact Resistance	100 ohms (max)
Insulation Resistance	50 Mohms (min)
Breakdown Voltage	500 V AC (max 60 secs.)
Switch Rating	24V DC, 50mA (max)
Connection	X-Y Matrix
Anti-Tamper circuit	24V DC, 10mA (max)

Character Display (where specified)	Powertip 20 character x 4 line LCD fitted with single row 0.1" pins Type PC2004LRU-AWA-H-Q

Mechanical

Operational Life	2 million cycles (min) per key (4 million cycles Vandal resistant)
Keytop Travel	1.4mm nominal
Actuation Force	150 grams nominal
Connector	0.1"pitch, gold plated square pin

Performance

Operational Temp	-20°C to 60°C
Impact Rating	5 J
Vibration/Shock	ETSI 300 019 5M3
Water / Dust sealed	IP65 (when fixed to suitable panel)
	IP67 (Vandal Resistant)

Part Numbers

FT1K050	Vandal Resistant Metal Keys no display
FT1K080	Vandal Resistant Metal Keys with display
FT2K050	Robust Polymer Keys no display
FT2K080	Robust Polymer Keys with display
FT4K090	General purpose with display
FT4K100	General purpose no display

Accessories

FTMK010[x]	Under panel mounting kit
4200-00X	RS232 PC interface

Dimensions

Overall sizes	178 H x 120 W x 54 D mm
Under panel cut-out	169 H x 111W mm
On Panel cut-out	165 H x 109 W mm
Cut-out DXF and Surface Model	Download from www.storm-interface.com

www.storm-interface.com

Whilst every effort is made to ensure details are correct at time of print, specifications are subject to change without notice
www.storm-interface.com

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